



Powered by

AeroScout[®]



Operating Manual



iCITE100-M-E / EX-2000-X2
iCITE100-S-E / EX-2000-X4
(English)

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Document Number 406612 (See Last Page for Revision Details)

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1 Introduction

The Extronics iCITE100-M-E / iCITE100-S-E / EX-2000-X2 / EX-2000-X4 are MET Canada Class I Division 2 approved versions of the Aeroscout EX-2000 unit; this is a hardware component of Aeroscout's industry-leading visibility system for active RFID and location applications. The device adds value by extending the system to provide robust and sophisticated RFID detection and identification capabilities, using the same Wi-Fi-based active RFID tags that can also be accurately located in real time by the Aeroscout system.

The iCITE100/EX-2000 uses a 125KHz ASK modulated field to trigger Extronics iTAG100/TAG-2000 devices as they come within range of the iCITE100/EX-2000 field. This causes the tags to transmit a 2.4GHz WiFi message that is received by a Location Receiver or compatible access point. This provides instant knowledge that a tagged asset or person passed through a gate, doorway or some other tightly defined area.

There are two variants of the iCITE100/EX-2000; master and slave. The master unit may be operated in stand-alone mode, supplied either by IEEE802.3af compliant power-over-Ethernet (POE) or from a 24VAC/DC supply. The master unit communicates with the Aeroscout software via 10/100BASET Ethernet.

The slave unit must be connected to a master unit, as it is powered from the master and also receives synchronisation data via RS485. Up to three slave units may 'chained' in series from one master unit. The slave units are used to extend the range of a master unit, for example to reach both sides of a large doorway.

2 Safety Information and Notes

2.1 Storage of this Manual

Keep this user manual safe and in the vicinity of the device. All persons who have to work on or with the device should be advised on where the manual is stored.

2.2 Special Conditions for Safe Use

2.2.1 Class 1 Division 2

None specified.

2.3 List of Notes

The notes supplied in this chapter provide information on the following.

- **Danger! / Warning!**
 - Possible hazard to life or health.
- **Caution**
 - Possible damage to property.
- **Important**
 - Possible damage to enclosure, device or associated equipment.
- **Information**
 - Notes on the optimum use of the device
 -

Warning!	Installation and maintenance of the iCITE100-M-E/ iCITE100-S-E / EX-2000-X2 / EX-2000-X4 must only be carried out by suitably qualified personnel. The equipment must be installed in accordance with CEC requirements.
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Warning!	All cables connected to the iCITE100/EX-2000 are to be installed using cable glands suitable for the hazardous area in which the unit is being installed, fitted by a competent person.
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Warning!	Any cable glands which are not in use MUST be replaced by blanking plugs suitable for the hazardous area in which the unit is being installed, fitted by a competent person.
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Warning!	Do not open the enclosure while the equipment is powered, unless the area is known to be free of ignitable concentrations of flammable substances.
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Warning!	The iCITE100/EX-2000 units do not require an earth connection for electrical safety purposes. However, any un-used cable cores must be terminated or earthed, and all cable shields/screens must be earthed. Earth terminals are provided within the iCITE100/EX-2000 units for this purpose.
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Warning!	Ensure that any cables connected to the iCITE100/EX-2000 have adequate mechanical protection to avoid damage to the wires. Failure to do so could cause shorts or exposure of non-insulated wires to potentially explosive environments.
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Warning! Ensure that the lid is secure, the lid gasket is un-damaged, correct cable glands are fitted and the unit is correctly wired before applying power to the iCITE100/EX-2000.

Warning! Do not connect more than one source of power to the iCITE100/EX-2000 units.

Warning! The maximum power supply voltage for the master unit external power supply inputs is 24V AC/DC.

Warning! Never connect a slave unit to power supply of more than 24V.

Warning! A suitably-rated and readily-accessible disconnect device shall be incorporated external to the iCITE100-M-E/ iCITE100-S-E /EX-2000-X2/EX-2000-X4.

Important iCITE100/EX-2000 master units may only be powered either from IEEE 802.3af POE via the Ethernet interface, or from 24V AC/DC via the power input terminals - see Section 3.1.1.

Important iCITE100/EX-2000 slave units may be powered either from the 'chained' power supply connection from a master unit, or from 24V AC/DC via the power input terminals. The slave unit is NOT IEEE 802.3af POE compatible - see Section 3.1.1.

Important The master and slave iCITE100/EX-2000 units have different terminal connections. Follow the correct pin connections for the unit being installed.

Important A maximum of 3 slave iCITE100/EX-2000 units may be powered from a master unit - see Section 3.1.1.

Important The iCITE100/EX-2000 units contain fuses which limit the current into each unit to 800mA when powered from an external power supply, or 400mA when powered from POE. These fuses however do not limit the current available to be supplied to the next device when units are connected in a chain - see Section 3.1.1. The fuses are not user-accessible.

2.4 Class 1 Division 2 Approvals Information

The iCITE100-M-E, iCITE100-S-E, EX-2000-X2 and EX-2000-X4 carry the following approval:



Listing No. E113811

Class I, Division 2, Groups A, B, C, D Hazardous Location
Classe I, Division 2, Groupes A, B, C, D Emplacement Dangereux
TEMPERATURE CODE/CODE DE LA TEMPÉRATURE T4
 $-30^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$

The products are approved to the following standards:

CSA C22.2 No. 60950-1-07 (R2012) - Safety of Information Technology Equipment.
CSA 22.2 No. 213-M1987 (R2013) - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

3 Installation and Setting to Work

3.1 Installation

The iCITE100/EX-2000 is simple to install and can be secured directly to a suitable surface using the mounting holes in the enclosure.

3.1.1 Power Supply and Interconnection Requirements

The iCITE100/EX-2000 master and slave variants may be powered in a number of different ways. The diagram below is not exhaustive; various combinations of the configurations shown can be used, provided the rules shown are not contravened.

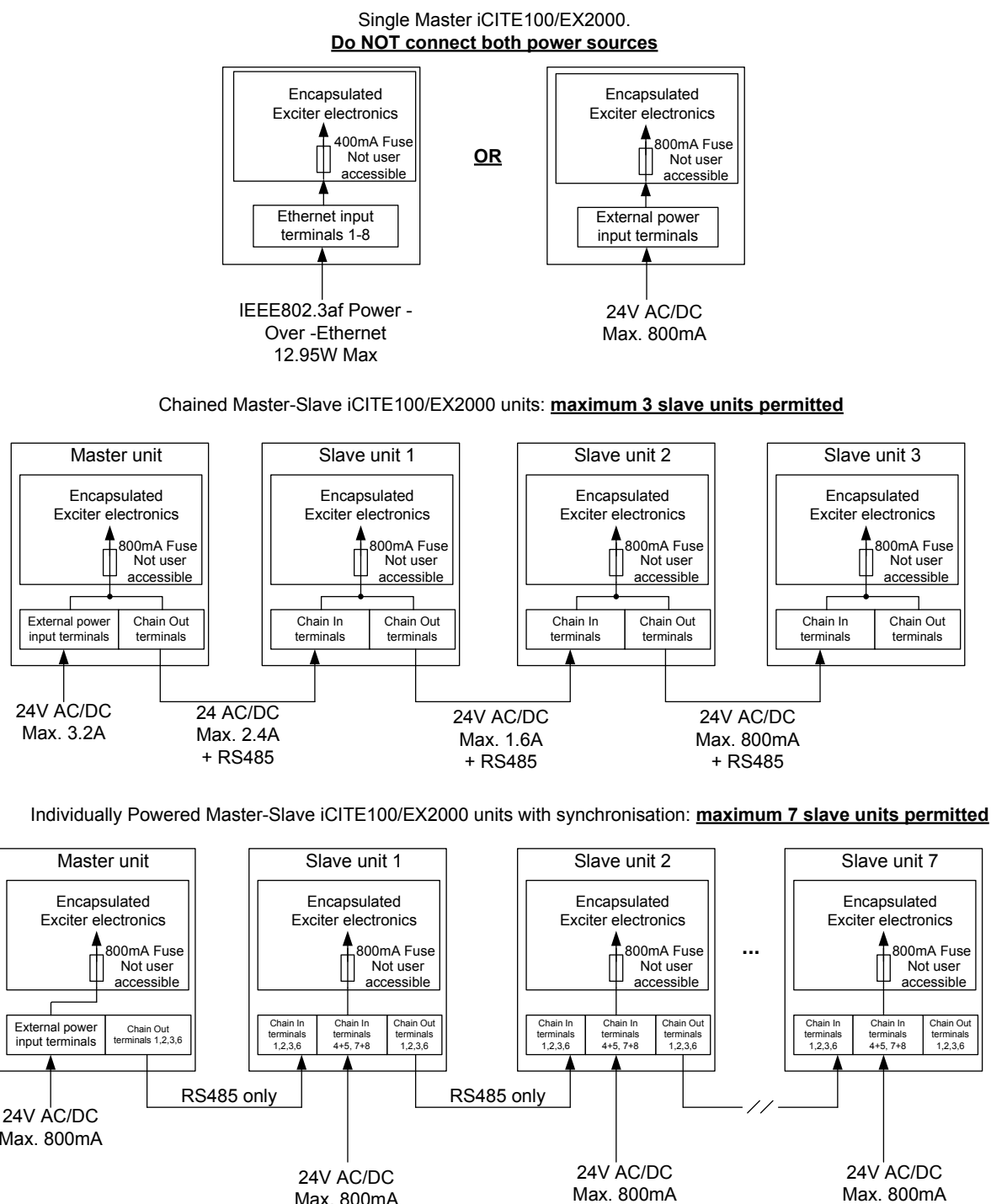


Figure 1: iCITE100/EX-2000 Power/Interconnection Options

3.1.2 Power Supply Isolation Requirements

Warning! A suitably-rated and readily-accessible disconnect device shall be incorporated external to the iCITE100-M-E/iCITE100-S-E /EX-2000-X2/EX-2000-X4.

3.1.3 Removing the cover

Using a 5mm Allen key unscrew all four screws located in the corners of the box as indicated below in Figure 2 - note that these are captive screws that are retained in the lid.



Figure 2: iCITE100/EX-2000 Enclosure access screw locations

After removing the cover the iCITE100/EX-2000 antenna and screw terminals will be exposed. It is necessary to remove the antenna to gain access to the Ex e screw terminals. To do this, remove the 4 nuts and washers as indicated in Figure 3, and carefully lift the antenna off the screw pillars. The antenna will come pre-installed, when removing the antenna, be careful not to put a strain on the wires connected to the antenna. It is not necessary to remove the wires connecting the antenna to the PCB from the screw terminals to complete installation. Ensure the antenna is secured with the same washers and nuts before replacing the cover. **Do not substitute for metal nuts/washers as this may affect the RF performance.**

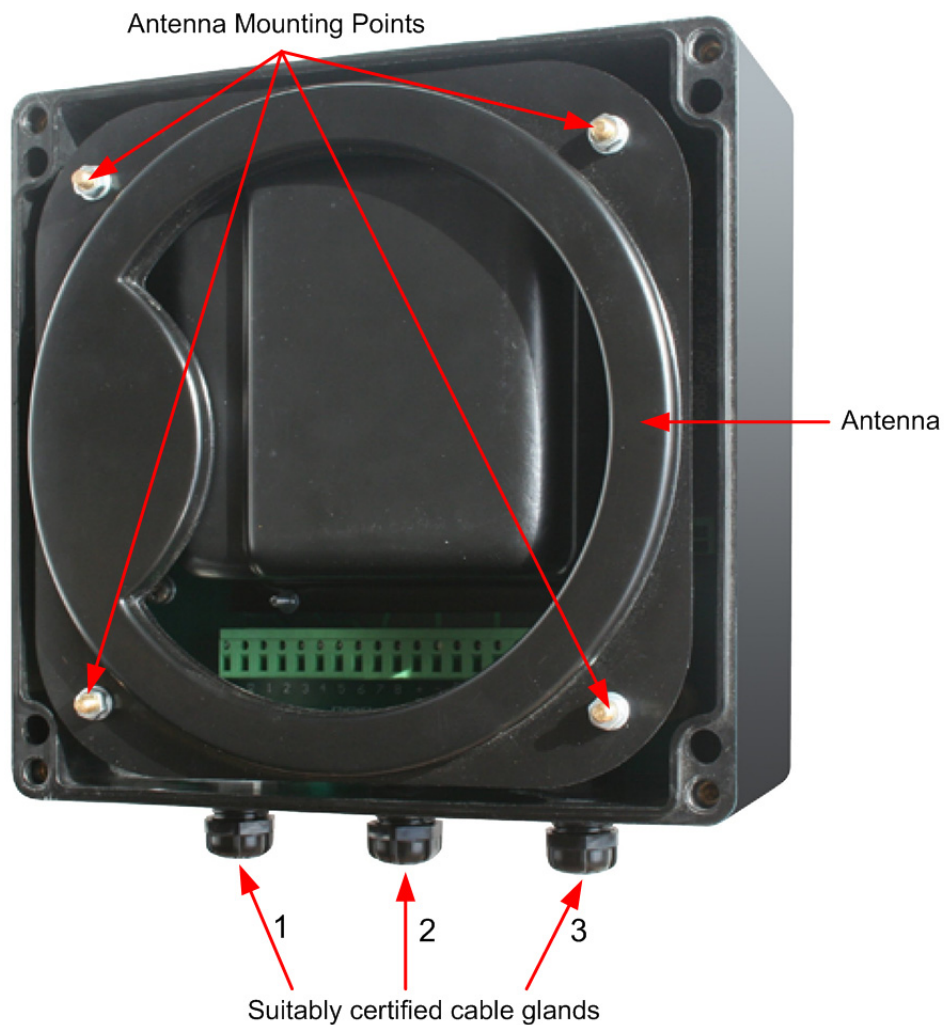


Figure 3: View of iCITE100/EX-2000 with Enclosure Lid Removed

Table 1 below describes which wire each cable gland should be used for. If one of the cables is not required due to the configuration required the cable gland(s) not in use must be replaced with a suitably certified blanking plug.

Gland	Master Purpose	Slave Purpose
1	Ethernet	Not used, stopping plug fitted
2	External Power In	CHAIN Out
3	CHAIN Out	CHAIN In

Table 1: Cable to Gland Descriptions

3.1.4 Mounting Information

If the enclosure is to be mounted directly to a wall / mounting plate, please see below for mounting hole locations and sizes (all dimensions in mm). You should mount the enclosure to the wall with the lid removed to allow access to the mounting holes, then refit the enclosure lid and securely tighten the screws making sure not to over-tighten them.

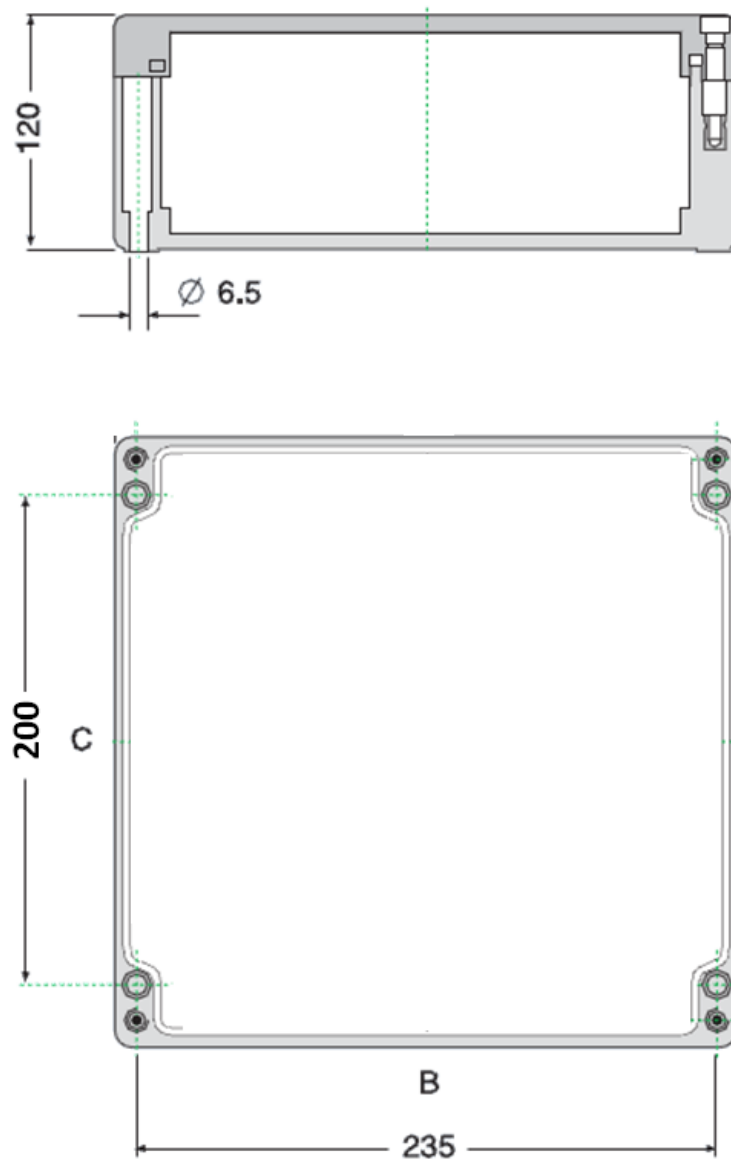


Figure 4: Enclosure wall-mounting holes

If mounting the enclosure to a pipe using the Extronics pipe mounting bracket (Extronics Part number A070031), please see below for mounting details. The enclosure should be supplied with the pipe mount bracket fitted. The bracket is designed for mounting to a 2" diameter pipe, as shown in Figure 5.

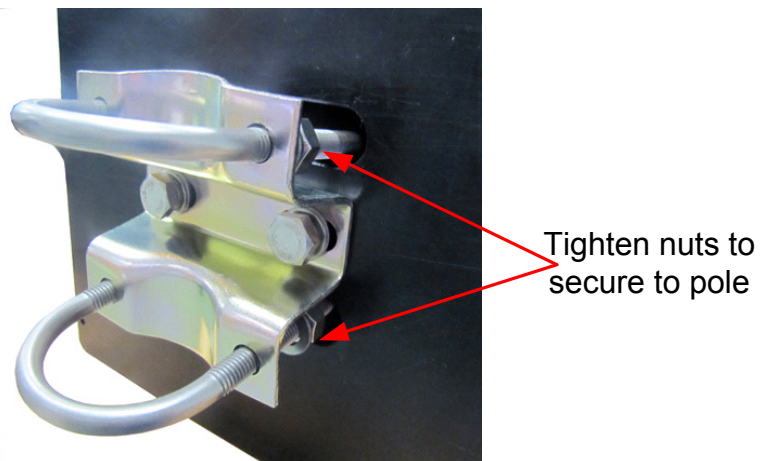
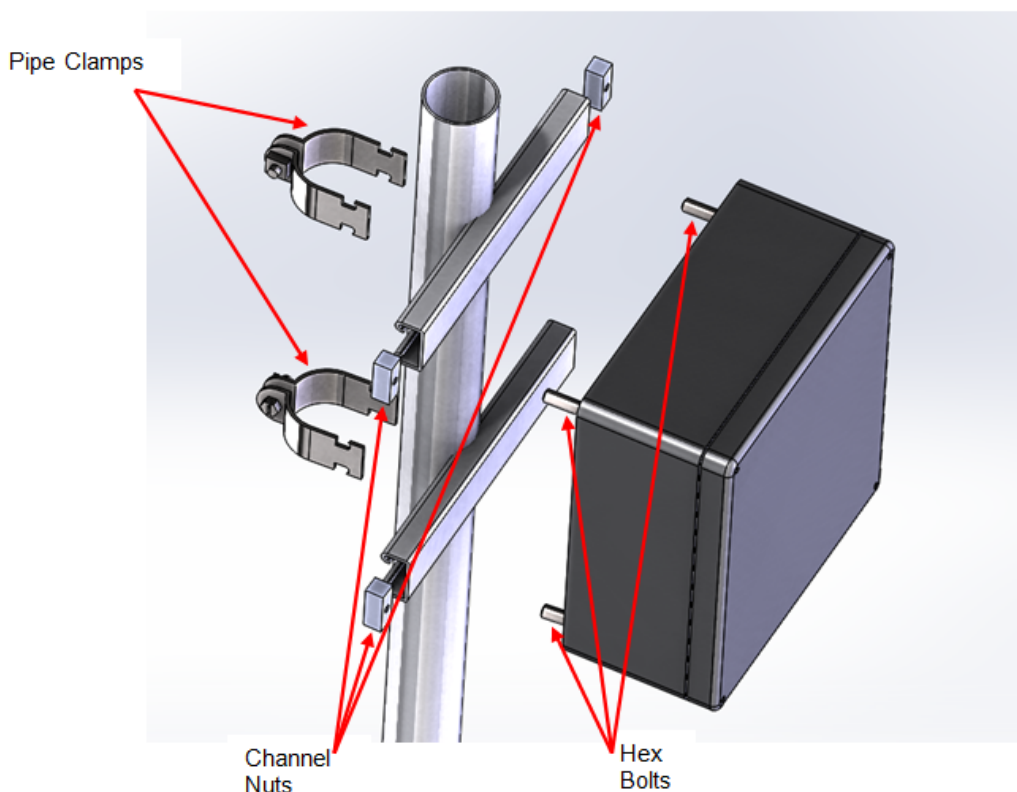


Figure 5: Pole Mounting

Alternatively, pipe mount bracket iWAPMB04 may be used to mount the enclosure to a 2" diameter pipe as shown below:

- 1.) Insert a pair of pipe clamps into each of the Unistrut channel sections.
- 2.) Insert two channel nuts (one either side of the pipe brackets) into each of the Unistrut channel sections.
- 3.) Move the channel nuts in line with the fixing locations of the enclosure, and secure the enclosure to the Unistrut channels using the fixings provided.
- 4.) Place the pipe clamps around the desired mounting location on the pole, and then tighten the fixings securely to the pole, ensuring the din rail is safely secured.



3.1.5 Cable Termination Requirements

The iCITE100/EX-2000 units are equipped with safety-approved screw terminals for all connections. These terminals are designed to accept the following wire gauges. Connections must comply with the requirements of this table.

Connection Type	Min. Conductor Cross-Section/mm ²	Max. Conductor Cross-Section/mm ²
Single solid wire	0.2	2.5
Single stranded wire	0.2	2.5
Stranded wire with ferrule, no plastic sleeve	0.25	1.5
Stranded wire with ferrule, with plastic sleeve	0.25	1.5
2 solid conductors, same cross section	0.2	0.75
2 stranded conductors, same cross section	0.25	0.75
2 stranded conductors, same cross section, with ferrule, no plastic sleeve	0.25	0.34

Table 2: Cable Termination Requirements

Important The master and slave iCITE100/EX-2000 units have different terminal connections. Follow the correct pin connections for the unit being installed.

3.2 Connections to Master Unit

Important The Master Exciter cannot be configured using exciter manager

Important IP Reset Switch - The iCITE100 / EX-2000 units have no option for IP reset due to the hazardous area protection of the exciter

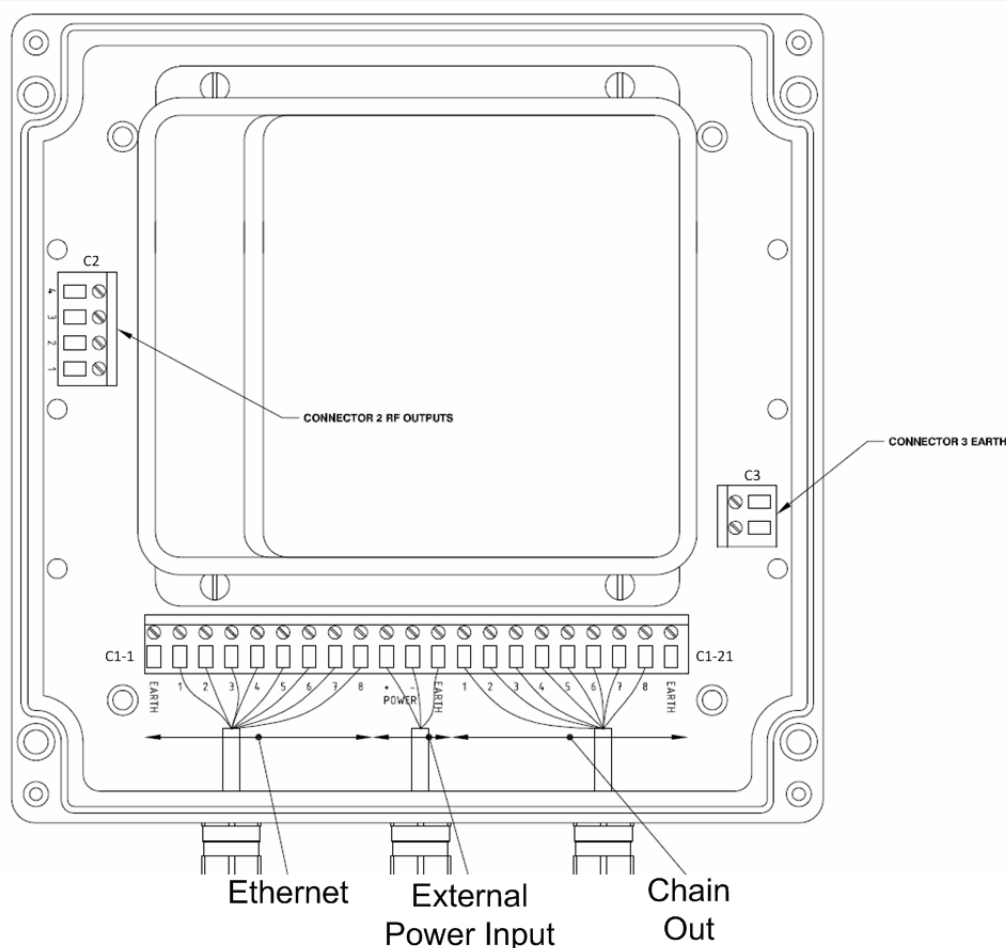


Figure 6: Master Unit Connector Locations

Depending on the configuration required there may be stopping plugs instead of cable glands in the enclosure. For example if the unit is to be used as a single iCITE100/EX-2000 with no Ethernet connection, only a power supply will be needed. Therefore only the middle cable gland will be needed and the other 2 glands will be replaced with stopping plugs.

3.2.1 Ethernet Connection

To connect a Cat-5 cable to the Ethernet screw terminals, feed the cable through the left-most cable gland and strip the wire to expose the 8 individual wire cores as describes above in table 4.2 and also the outer sheath. Terminate the wires and outer sheath in bootlace ferrules. Any earth wire should be sleeved. Place the correct wires into the corresponding screw terminal, i.e. Cat-5 wire 1 into Ethernet – 1 and Cat-5 wire 8 into Ethernet – 8. Place the terminated outer sheath into the earth terminal C1-21. Ensure the wires are securely screwed into place.

3.2.2 Power Connection

If the iCITE100/EX-2000 is to be powered via an external power source, ensure the power supply is 24V ac/dc only. Feed the cable through the middle cable gland and strip the wire to expose the two power lines and the outer sheath, then strip and terminate the exposed wires with bootlace ferrules. Any earth wire should be sleeved. Place the wires into the corresponding screw terminal as indicated in below in table 4.3. The earth wire should be placed into screw terminal C1 – 10. Ensure the wires are securely screwed in place.

3.2.3 Chain Connection

If the iCITE100/EX-2000s are to be used in chained mode, the Chain Out on the master unit (connector 1) will be used to connect the first slave unit. The Chain connection should also be made using a Cat-5 cable. Feed the cable through the right hand cable gland, then strip and terminate the wires with bootlace ferrules. Any earth wire should be sleeved. Place the outer sheath into the earth terminal C1-1 and the corresponding cat-5 wires into the Chain Out screw terminals as described below in Table 3, i.e. Cat-5 wire 1 into Chain Out – 1. Ensure the wires are securely screwed in place.

3.2.4 Earthing

Warning! The iCITE100/EX-2000 units do not require an earth connection for electrical safety purposes. However, any unused cable cores must be terminated or earthed, and all cable shields/screens must be earthed. Earth terminals are provided within the iCITE100/EX-2000 units for this purpose.

3.2.5 Master Unit Terminal Allocations

Master Connector/Pin No.	Pin Description
C1 - 1	Earth (Ethernet outer sheath)
C1 - 2	Ethernet - 1
C1 - 3	Ethernet - 2
C1 - 4	Ethernet - 3
C1 - 5	Ethernet - 4
C1 - 6	Ethernet - 5
C1 - 7	Ethernet - 6
C1 - 8	Ethernet - 7
C1 - 9	Ethernet - 8
C1 - 10	External Power +
C1 - 11	External Power -
C1 - 12	Earth (Power cable outer sheath)
C1 - 13	RS485 Out - 1
C1 - 14	RS485 Out - 2
C1 - 15	RS485 Out - 3
C1 - 16	RS485 Out - 4
C1 - 17	RS485 Out - 5
C1 - 18	RS485 Out - 6
C1 - 19	RS485 Out - 7
C1 - 20	RS485 Out - 8
C1 - 21	Earth (Chain Out)
C2 - 1	Long Range Antenna + (Blue)
C2 - 2	Long Range Antenna - (Green)
C2 - 3	Short Range Antenna + (Red)
C2 - 4	Short Range Antenna - (Black)
C3 - 1	Earth
C3 - 2	Earth

Table 3: Master Unit Terminal Allocations

3.3 Connections to Slave Unit

Important IP Reset Switch - The iCITE100 / EX-2000 units have no option for IP reset due to the hazardous area protection of the exciter

The slave iCITE100/EX-2000's are powered and controlled via a master unit. RS485 data and power is fed into a slave unit from a master unit. It is possible to have up to 7 slave units attached to a master unit in a chain (see Figure 1). The first slave will accept an RS485 input from the master, this unit will then send an RS485 output to the input of the subsequent slave units.

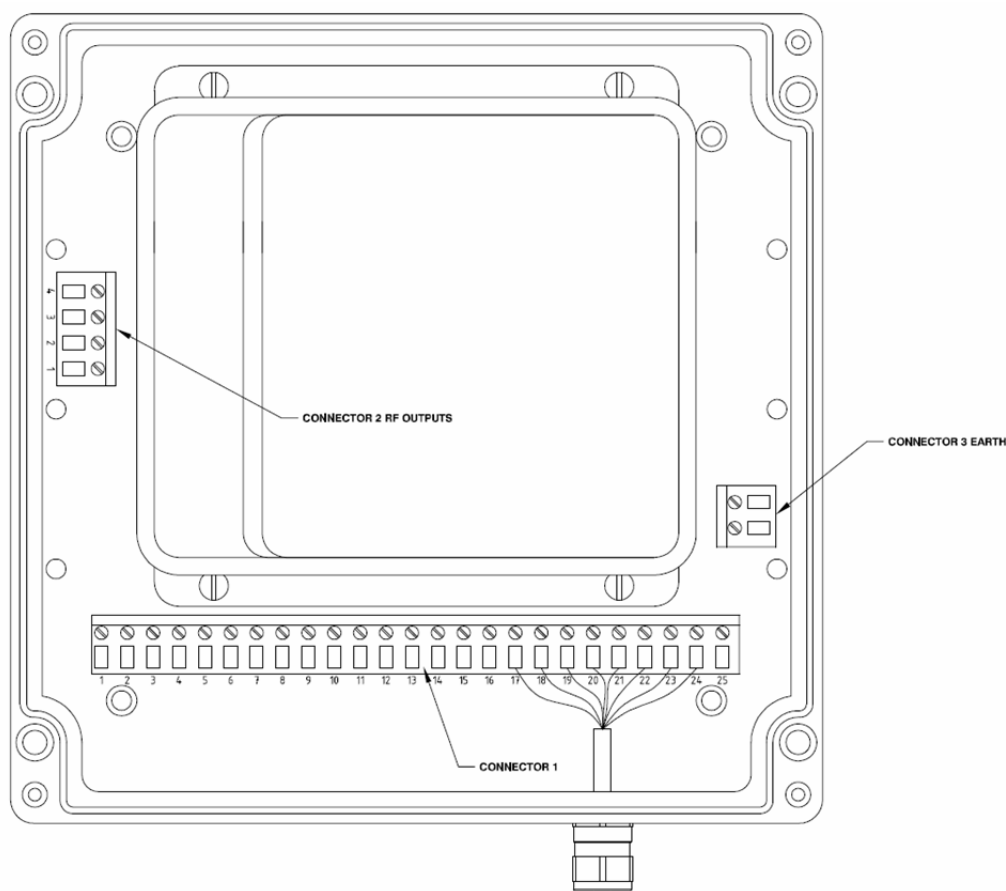


Figure 7: Slave Unit Connector Locations

3.3.1 Chain In Connection

The Chain In terminals on connector 1 will be used to connect the unit to either a master or another slave unit's Chain Out terminals. The Chain In connection should be made using a Cat-5 cable. Feed the cable through the left hand cable gland, then strip and terminate the wires with bootlace ferrules. Any earth wire should be sleeved. Place the outer sheath into the earth terminal C1-1 and the corresponding cat-5 wires into the Chain in screw terminal as described below in Table 5, i.e. Cat-5 wire 1 into Chain In – 1. Ensure the wires are securely screwed in place.

3.3.2 Chain Out Connection

If another slave is to be connected to the Chain Out pins on connector 1 will be used to connect the second slave unit. The Chain Out connection should also be made using a cat-5 cable. Feed the cable through the right hand cable gland, then strip and terminate the wires with bootlace ferrules. Any earth wire should be sleeved. Place the outer sheath into the earth terminal C1-18 and the corresponding Cat-5 wires into the Chain Out screw terminal as described below in Table 5, i.e. Cat-5 wire 1 into Chain Out – 1. Ensure the wires are securely screwed in place.

3.3.3 Termination Jumper Setup

The last slave in a chain needs to have its RS485 connections to be terminated for correct operation; this is done by adding short jumper links to the screw terminals. These links must be made with insulated wire of a suitable gauge, fitted with bootlace ferrules as described in

Table 2. Refer to Table 4 for termination settings.

Note that the master unit does not require any configuration for chaining use, it is pre-terminated internally.

Configuration	Termination Required?	Term 1 & Term 2 Configuration	Term 3 configuration
Master - Slave 1	Slave 1 = Yes	Slave 1 = Linked	Slave 1 = A+B
Master - Slave 1 - Slave 2	Slave 1=No Slave 2 = Yes	Slave 1 = Not Linked Slave 2 = Linked	Slave 1 = B+C Slave 2 = A+B
Master - Slave 1 Slave 2 - Slave 3	Slave 1=No Slave 2 = Yes Slave 3 = Yes	Slave 1 = Not Linked Slave 2 = Not Linked Slave 3 = Linked	Slave 1 = B+C Slave 2 = B+C Slave 3 = A+B

Table 4: Termination Jumper Setup

The terminals on the slave unit used for these links are as follows:

Term 1 linked = wire link C1-1 and C1-2

Term 2 linked = wire link C1-3 and C1-4

Term 3 A+B = wire link C1-5 and C1-6

Term 3 B+C = wire link C1-6 and C1-7

3.3.4 Earthing

Warning! The iCITE100/EX-2000 units do not require an earth connection for electrical safety purposes. However, any unused cable cores must be terminated or earthed, and all cable shields/screens must be earthed. Earth terminals are provided within the iCITE100/EX-2000 units for this purpose.

3.3.5 Slave Unit Terminal Allocations

Slave Connector/Pin No.	Pin Name
C1 - 1	Term1A
C1 - 2	Term1B
C1 - 3	Term2A
C1 - 4	Term2B
C1 - 5	Term3A
C1 - 6	Term3B
C1 - 7	Term3C
C1 - 8	Earth
C1 - 9	Chain Output - 8
C1 - 10	Chain Output - 7
C1 - 11	Chain Output - 6
C1 - 12	Chain Output - 5
C1 - 13	Chain Output - 4
C1 - 14	Chain Output - 3
C1 - 15	Chain Output - 2
C1 - 16	Chain Output - 1
C1 - 17	RS485 Input - 8
C1 - 18	RS485 Input - 7
C1 - 19	RS485 Input - 6
C1 - 20	RS485 Input - 5
C1 - 21	RS485 Input - 4
C1 - 22	RS485 Input - 3
C1 - 23	RS485 Input - 2
C1 - 24	RS485 Input - 1
C1 - 25	Earth
C2 - 1	Short Range Antenna + (Red)
C2 - 2	Short Range Antenna - (Black)
C2 - 3	Long Range Antenna + (Blue)
C2 - 4	Long Range Antenna - (Green)
C3 - 1	Earth
C3 - 2	Earth

Table 5: Slave Unit Terminal Allocations

4 Intended Purpose Usage

Important Before setting the units to work, read the technical documentation carefully.

Important The latest version of the technical documentation or the corresponding technical supplements is valid in each case.

The iCITE100/EX-2000 is built using modern components and is extremely reliable in operation; however it must only be used for its intended purpose. Please note that the intended purpose also includes compliance with the instructions issued by the manufacturer for installation, setting up and service.

Any other use is regarded as conflicting with the intended purpose. The manufacturer is not liable for any subsequent damage resulting from such inadmissible use. The user bears the sole risk in such cases.

4.1 Transportation and Storage

All iCITE100/EX-2000 devices must be so transported and stored that they are not subjected to any excessive mechanical stresses.

4.2 Authorized Persons

Only persons trained for the purpose are authorized to handle the iCITE100/EX-2000; they must be familiar with the unit and must be aware of the regulation and provisions required for explosion protection as well as the relevant accident prevention regulations.

4.3 Cleaning and Maintenance

The iCITE100/EX-2000 and all its components require no maintenance. All work on the iCITE100/EX-2000 by personnel who are not expressly qualified for such activities will cause the safety approval and the guarantee to become void.

4.4 Safety Precautions

Important For the installation, maintenance and cleaning of the units, it is absolutely necessary to observe the applicable regulations and provisions concerned with explosion protection.
--

4.5 Cleaning and Maintenance Intervals

The cleaning intervals depend on the environment where the system is installed.

4.6 Aggressive substances and environments

The iCITE100/EX-2000 is not designed to come into contact with aggressive substances or environments, please be aware that additional protection may be required.

4.7 Exposure to external stresses

The iCITE100/EX-2000 is not designed to be subjected to excessive stresses e.g. vibration, heat, impact. Additional protection is required to protect against these external stresses.

The iCITE100/EX-2000 will require additional protection if it is installed in a location where it may be subjected to damage.

5 Technical Data

Range	Adjustable from 50 centimetres to 6.5 metres (20 inches to 21 feet)
Tag Type	Extronics iTAG100 tags Aeroscout TAG-2000-X tags
Dimensions	255 x 250 x 120 mm (w x h x d) 10 x 9.85 x 4.72 inches
Weight	Approx 2.5 Kg (5.5 lbs)
Ambient Temperature	-30°C to +60°C (-22°F to +140°F)
Relative humidity	0 to 95%, non-condensing
Housing	Black antistatic GRP enclosure
Ingress Protection	IP66 / NEMA4
Electrical Connection	Screw terminals
Cable Entry	3 x M20 entries for suitably certified plastic cable glands
Mounting	Wall / ceiling, or pole mounting with optional accessory
Management	Settings configured remotely using Aeroscout System Manager Software
LF Channel	125KHz ASK modulation
Field Intensity Limits (ETSI)	37.3 dBµA/m at 10m
Propagation Limits (FCC)	21.8 dBµV/m at 10m
Radio Certification	FCC Part 15, sub part C class B, sub part B, EN300-330, EN301-489, RSS 210 (Canada)
Safety Certification	MET Canada Class I Division 2 T4 Listing Number E113811

6 Marking

EXTRONICS **iCITE100-M-E**
Date: 01/01/2014
Serial # 123456

MET Listing No. E113811
 COMPLIES WITH/CONFORME AVEC: CSA C22.2 No. 60950-1-7(R2012),
 CSA 22.2 No. 213-M1987(R2013)
 Class I, Division 2, Groups A, B, C, D Hazardous Location
 Classe I, Division 2, Groupes A, B, C, D Emplacement Dangereux
 TEMPERATURE CODE/CODE DE LA TEMPÉRATURE T4
 $-30^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$

ELECTRICAL RATING/PUISANCE: 48V, 400mA (IEE802.3af POE)
 OR/OU 24V AC/DC, 800mA (EXTERNAL POWER/ALIMENTATION EXTERNE)

WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT WHILE CIRCUIT IS
 LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS
 AVERTISSEMENT - RISQUE D'EXPLOSION. NE PAS DEBRANCHER TANT QUE LE
 CIRCUIT EST SOUS TENSION, À MOINS QU'IL NE S'AGISSE D'UN EMPLACEMENT
 NON DANGEREUX

WARNING-PERMANENTLY CONNECTED EQUIPMENT DO NOT OPEN WHILE POWERED
 NE PAS OUVRIR L'EQUIPEMENT LORSQU' IL EST CONNECTE AU COURANT DE SECTEUR

MANUFACTURER/FABRICANT:EXTRONICS LTD, 1 DALTON WAY, MIDPOINT 18,
 MIDDLEWICH, CW10 0HU,UK
 Tel.+44 (0)845 2775000 Fax+44(0)845 2774000
 E-mail: info@extronics.com Web: www.extronics.com

EXTRONICS **iCITE100-S-E**
Date:
Serial #

MET Listing No. E113811
 COMPLIES WITH/CONFORME AVEC: CSA C22.2 No. 60950-1-7(R2012),
 CSA 22.2 No. 213-M1987(R2013)
 Class I, Division 2, Groups A, B, C, D Hazardous Location
 Classe I, Division 2, Groupes A, B, C, D Emplacement Dangereux
 TEMPERATURE CODE/CODE DE LA TEMPÉRATURE T4
 $-30^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$

ELECTRICAL RATING/PUISANCE: 24V AC/DC, 800mA

WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT WHILE CIRCUIT IS
 LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS
 AVERTISSEMENT - RISQUE D'EXPLOSION. NE PAS DEBRANCHER TANT QUE LE
 CIRCUIT EST SOUS TENSION, À MOINS QU'IL NE S'AGISSE D'UN EMPLACEMENT
 NON DANGEREUX

WARNING-PERMANENTLY CONNECTED EQUIPMENT DO NOT OPEN WHILE POWERED
 NE PAS OUVRIR L'EQUIPEMENT LORSQU' IL EST CONNECTE AU COURANT DE SECTEUR

MANUFACTURER/FABRICANT:EXTRONICS LTD, 1 DALTON WAY, MIDPOINT 18,
 MIDDLEWICH, CW10 0HU,UK
 Tel.+44 (0)845 2775000 Fax+44(0)845 2774000
 E-mail: info@extronics.com Web: www.extronics.com

AeroScout® **EX-2000-X2**
Date: 01/01/2014
Serial # 123456

MET Listing No. E113811
 COMPLIES WITH/CONFORME AVEC: CSA C22.2 No. 60950-1-7(R2012),
 CSA 22.2 No. 213-M1987(R2013)
 Class I, Division 2, Groups A, B, C, D Hazardous Location
 Classe I, Division 2, Groupes A, B, C, D Emplacement Dangereux
 TEMPERATURE CODE/CODE DE LA TEMPÉRATURE T4
 $-30^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$

ELECTRICAL RATING/PUISANCE: 48V, 400mA (IEE802.3af POE)
 OR/OU 24V AC/DC, 800mA (EXTERNAL POWER/ALIMENTATION EXTERNE)

WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT WHILE CIRCUIT IS
 LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS
 AVERTISSEMENT - RISQUE D'EXPLOSION. NE PAS DEBRANCHER TANT QUE LE
 CIRCUIT EST SOUS TENSION, À MOINS QU'IL NE S'AGISSE D'UN EMPLACEMENT
 NON DANGEREUX

WARNING-PERMANENTLY CONNECTED EQUIPMENT DO NOT OPEN WHILE POWERED
 NE PAS OUVRIR L'EQUIPEMENT LORSQU' IL EST CONNECTE AU COURANT DE SECTEUR

MANUFACTURER/FABRICANT:EXTRONICS LTD, 1 DALTON WAY, MIDPOINT 18,
 MIDDLEWICH, CW10 0HU,UK
 Tel.+44 (0)845 2775000 Fax+44(0)845 2774000
 E-mail: info@extronics.com Web: www.extronics.com

AeroScout® **EX-2000-X4**
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MET Listing No. E113811
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 TEMPERATURE CODE/CODE DE LA TEMPÉRATURE T4
 $-30^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$

ELECTRICAL RATING/PUISANCE: 24V AC/DC, 800mA

WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT WHILE CIRCUIT IS
 LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS
 AVERTISSEMENT - RISQUE D'EXPLOSION. NE PAS DEBRANCHER TANT QUE LE
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7 Type Codes

Type Code	Description
iCITE100-M-E	Extronics-Branded Master Exciter MET Canada Class I Division 2 T4 Approved -30°C to +60°C
iCITE100-S-E	Extronics-Branded Slave Exciter MET Canada Class I Division 2 T4 Approved -30°C to +60°C
EX-2000-X2	Aeroscout-Branded Master Exciter MET Canada Class I Division 2 T4 Approved -30°C to +60°C
EX-2000-X4	Aeroscout-Branded Slave Exciter MET Canada Class I Division 2 T4 Approved -30°C to +60°C

8 Manufacturer

The iCITE100/EX-2000 is manufactured by:

**Extronics Ltd,
1 Dalton Way,
Midpoint 18,
Middlewich
Cheshire
CW10 0HU
UK**

**Tel. +44(0)845 2775000
Fax. +44(0)845 2774000
E-mail: info@extronics.com
We: www.extronics.com**

9 Manual Revision

Revision	Description	Date	By
1.0	Initial Release	08/08/2014	BTS
2.0	Slave antenna terminal swap	11/09/2014	BTS
2.1	Added Master / Slave config info	16/01/2015	AJP